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L2	105044	"707"/("100" - "104.1").ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/07 19:33
L3	105044	"707"/("200" - "205").ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/07 19:33
L4	44738	"707"/$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/07 19:34
L5	2437	707/5.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/07 19:35
L6	0	"industrial business context dimension" and @ad<"20020726"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/07 20:10
L7	56	("5319395" "6249824" "5784366" "5909435" "5877742" "5303393" "5365516" "5526357" "5764691" "5894494" "5999562" "6072185" "6237122" "5507024" "5805155" "5848072" "6181609" "4455483" "5177796" "5274508" "5321699" "5386422" "5388074" "5469444" "5481531" "5506965" "5684774" "5841717" "5917429" "6178121").pn. and @ad<"20020726"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/07 21:09
L8	142	(industr$6 same context$8 same dimension$6) and @ad<"20020726"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/07 19:53
L9	10	8 and ((access$6 log$5 authori$8) same facilita$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/07 19:56
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L11	2814	industr$7 and (context$6 same dimension$6) and @ad<"20020726"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/07 19:57
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L23	1	22 and function$1 and parameter$1 and dimension$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/07 20:28

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name="Greetings" ... Dimensioned Numeric Language:. **<Context> <Dimension**
id="Time"> ...
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Only **dimension nodes** that are instances of the same entity class should be grouped ....
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File Format: PDF/Adobe Acrobat - <u>View as HTML</u>
associated with entities representing the relevant **context dimensions**. Depend- ....
extends OEM with multidimensional **nodes and context** edges. ...
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node to the user **node**. The application of a path p is. equivalent to the execution of the
following **....** considered **context dimension** is the user language. **...**
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Terms used: **data** and **industrial business context dimension**   Found **101,080** of **205,978**

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1   Document management: Context representation, transformation and comparison for ad hoc product data exchange   ■
Jingzhi Guo, Chengzheng Sun
November 2003 **Proceedings of the 2003 ACM symposium on Document engineering DocEng '03**
Publisher: ACM Press
Full text available: 📄 pdf(275.65 KB)   Additional Information: full citation, abstract, references, index terms

> Product data exchange is the precondition of business interoperation between Web-based firms. However, millions of small and medium sized enterprises (SMEs) encode their Web product data in ad hoc formats for electronic product catalogues. This prevents product data exchange between business partners for business interoperation. To solve this problem, this paper has proposed a novel concept-centric catalogue engineering approach for representing, transforming and comparing semantic contexts in a ...
>
> **Keywords**: XML product map, XPM, ad hoc product data exchange, concept, context comparison, context representation, context transformation, electronic commerce, electronic product catalogue, product data integration, semantics

2   Frontmatter (TOC, Letters, Philosophy of computer science, Interviewers needed, Taking software requirements creation from folklore to analysis, SW components and product lines: from business to systems and technology, Software engineering survey)   ■
September 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 5
Publisher: ACM Press
Full text available: 📄 pdf(1.98 MB)   Additional Information: full citation, index terms

3   Context representation of product data   ■
Jingzhi Guo, Chengzheng Sun
March 2003 **ACM SIGecom Exchanges**, Volume 4 Issue 1
Publisher: ACM Press
Full text available: 📄 pdf(208.99 KB)   Additional Information: full citation, abstract, references, citings, index terms

> This paper investigates the context representation of *ad hoc* product data that distribute

in different semantic communities especially in small and medium sized enterprises through the analysis of the problems in extracting, mediating and comparing product contexts. The problem analysis leads to a proposal for a novel context representation model that separates the representation process into two steps: transform irregular local product definitions into canonical local product representat ...

Keywords: context representation, electronic commerce, product catalogue, product data integration

4 Data processing in the large: BIwTL: a business information warehouse toolkit and language for warehousing simplification and automation
Bin He, Rui Wang, Ying Chen, Ana Lelescu, James Rhodes
June 2007 **Proceedings of the 2007 ACM SIGMOD international conference on Management of data SIGMOD '07**
Publisher: ACM Press
Full text available: pdf(355.95 KB)   Additional Information: full citation, abstract, references, index terms

Rapidly leveraging information analytics technologies to mine the mounting information in structured and unstructured forms, derive business insights and improve decision making is becoming increasingly critical to today's business successes. One of the key enablers of the analytics technologies is an Information Warehouse Management System (IWMS) that processes different types and forms of information, builds, and maintains the information warehouse (IW) effectively. Although traditional mul ...

Keywords: data mining, information warehouse, warehousing language

5 Designing data marts for data warehouses
October 2001 **ACM Transactions on Software Engineering and Methodology (TOSEM),**
Volume 10 Issue 4
Publisher: ACM Press
Full text available: pdf(203.43 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

Data warehouses are databases devoted to analytical processing. They are used to support decision-making activities in most modern business settings, when complex data sets have to be studied and analyzed. The technology for analytical processing assumes that data are presented in the form of simple data marts, consisting of a well-identified collection of facts and data analysis dimensions (star schema). Despite the wide diffusion of data warehouse technology and concepts, we still miss me ...

Keywords: conceptual modeling, data mart, data warehouse, design method, software quality management

6 Information systems outsourcing: a survey and analysis of the literature
Jens Dibbern, Tim Goles, Rudy Hirschheim, Bandula Jayatilaka
November 2004 **ACM SIGMIS Database**, Volume 35 Issue 4
Publisher: ACM Press
Full text available: pdf(1.51 MB)   Additional Information: full citation, abstract, references, citings

In the last fifteen years, academic research on information systems (IS) outsourcing has evolved rapidly. Indeed the field of outsourcing research has grown so fast that there has been scant opportunity for the research community to take a collective breath, and complete a global assessment of research activities to date. This paper seeks to address this need by exploring and synthesizing the academic literature on IS outsourcing. It

offers a roadmap of the IS outsourcing literature, highligh ...

Keywords: determinants, literature review, outcomes, outsourcing, relationships, research approaches, theoretical foundations

7 Reflections on the dimensions of trust and trustworthiness among online consumers ■
David Gefen
August 2002 **ACM SIGMIS Database**, Volume 33 Issue 3
Publisher: ACM Press

Full text available: 🗎 pdf(581.74 KB)   Additional Information: full citation, abstract, references, citings, index terms

Trust is emerging as a potentially central aspect leading to IT acceptance. It is especially needed in the case of gaining and later retaining consumers of online vendors. This has been shown by previous research using single dimensional constructs. But trust can also be viewed as a multi-dimensional construct combining specific beliefs (sometimes labeled as trustworthiness) that either directly or through an overall assessment of trust influence relevant behavioral intentions. To show the need ...

Keywords: ability, benevolence, electronic commerce, integrity, trust, trust scales, trustworthiness, world wide web

8 Industrial sessions: big data: TPC-DS, taking decision support benchmarking to the ■
next level
Meikel Poess, Bryan Smith, Lubor Kollar, Paul Larson
June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02**
Publisher: ACM Press

Full text available: 🗎 pdf(645.38 KB)   Additional Information: full citation, abstract, references, citings, index terms

TPC-DS is a new decision support benchmark currently under development by the Transaction Processing Performance Council (TPC). This paper provides a brief overview of the new benchmark. The benchmark models the decision support functions of a retail product supplier, including data loading, multiple types of queries and data maintenance. The database consists of multiple snowflake schemas with shared dimension tables; data is skewed; and the query set is large. Overall, the benchmark is conside ...

Keywords: TPC, benchmark, data warehouse, decision support, performance evaluation

9 Frontmatter (TOC, Letters, Election results, Software Reliability Resources!, ■
Computing Curricula 2004 and the Software Engineering Volume SE2004, Software
Reuse Research, ICSE 2005 Forward)
July 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 4
Publisher: ACM Press

Full text available: 🗎 pdf(6.19 MB)   Additional Information: full citation, index terms

10 Database design with common sense business reasoning and learning   ■
Veda C. Storey, Roger H. L. Chiang, Debabrata Dey, Robert C. Goldstein, Shankar Sudaresan
December 1997 **ACM Transactions on Database Systems (TODS)**, Volume 22 Issue 4
Publisher: ACM Press

Full text available: pdf(1.30 MB)   Additional Information: full citation, abstract, references, citings, index terms

Automated database design systems embody knowledge about the database design process. However, their lack of knowledge about the domains for which databases are being developed significantly limits their usefulness. A methodology for acquiring and using general world knowledge about business for database design has been developed and implemented in a system called the Common Sense Business Reasoner, which acquires facts about application domains and organizes them into a a hierarchical, con ...

Keywords: common sense business reasoner, common sense learning, common sense reasoning, database design, entity-relationship model

11 Industrial papers: query processing: Modeling and querying multidimensional data sources in Siebel Analytics: a federated relational system
Kazi A. Zaman, Donovan A. Schneider
June 2005 **Proceedings of the 2005 ACM SIGMOD international conference on Management of data SIGMOD '05**
Publisher: ACM Press
Full text available: pdf(401.92 KB)   Additional Information: full citation, abstract, references

Large organizations have a multitude of data sources across the enterprise and want to obtain business value from all of them. While the majority of these data sources may be consolidated in an enterprise data warehouse, many business units have their own data marts where analysis is carried out against data stored in multidimensional data structures. It is often critical to pose queries which span both these sources. This is a challenge since these sources have differing models and query langua ...

12 Business-to-business interactions: issues and enabling technologies
B. Medjahed, B. Benatallah, A. Bouguettaya, A. H. H. Ngu, A. K. Elmagarmid
May 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**,
Volume 12 Issue 1
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(558.34 KB)   Additional Information: full citation, abstract, citings, index terms

Business-to-Business (B2B) technologies pre-date the Web. They have existed for at least as long as the Internet. B2B applications were among the first to take advantage of advances in computer networking. The Electronic Data Interchange (EDI) business standard is an illustration of such an early adoption of the advances in computer networking. The ubiquity and the affordability of the Web has made it possible for the masses of businesses to automate their B2B interactions. However, several issu ...

Keywords: B2B Interactions, Components, E-commerce, EDI, Web services, Workflows, XML

13 Approaches to the development of multi-dimensional databases: lessons from four case studies
Helen Hasan, Peter Hyland, David Dodds, Raja Veeraraghavan
June 2000 **ACM SIGMIS Database**, Volume 31 Issue 3
Publisher: ACM Press
Full text available: pdf(1.21 MB)   Additional Information: full citation, abstract, index terms

The paper explores the manner in which an organization's data and information can be effectively utilized to assist an organization to achieve its business objectives. With the increased popularity of data warehousing and executive information systems, there is renewed interest by IT practitioners in data models and database structures, in particular

multi-dimensional forms, which have joined their relational counterparts as legitimate
tools for extracting vital business information from an orga ...

Keywords: OLAP, case study, executive information systems, management,
methodology, multi-dimensional database, organization, relational database

14 Approaches to the development of multi-dimensional databases: lessons from four
case studies
Helen Hasan, Peter Hyland, David Dodds, Raja Veeraraghavan
May 2000 **ACM SIGMIS Database**, Volume 31 Issue 2
Publisher: ACM Press
Full text available: pdf(1.21 MB)   Additional Information: full citation, index terms

Keywords: OLAP, case study, executive information systems, management,
methodology, multi-multidimensional database, organization, relational database

15 Industrial and government applications track papers: Opportunity map: identifying
causes of failure - a deployed data mining system
Kaidi Zhao, Bing Liu, Jeffrey Benkler, Weimin Xiao
August 2006 **Proceedings of the 12th ACM SIGKDD international conference on
Knowledge discovery and data mining KDD '06**
Publisher: ACM Press
Full text available: pdf(2.47 MB)   Additional Information: full citation, abstract, references, index terms

In this paper, we report a deployed data mining application system for Motorola.
Originally, its intended use was for identifying causes of cellular phone failures, but it has
been found to be useful for many other engineering data sets as well. For this report, the
case study is a dataset containing cellular phone call records. This data set is like any
dataset used in classification applications, i.e., with a set of attributes which can be
continuous or discrete, and a discrete class attribute ...

Keywords: class association rules, general impressions, visual data mining

16 Advances in data warehousing: Research in data warehouse modeling and design:
dead or alive?
Stefano Rizzi, Alberto Abelló, Jens Lechtenbörger, Juan Trujillo
November 2006 **Proceedings of the 9th ACM international workshop on Data
warehousing and OLAP DOLAP '06**
Publisher: ACM Press
Full text available: pdf(202.01 KB)   Additional Information: full citation, abstract, references, index terms

Multidimensional modeling requires specialized design techniques. Though a lot has been
written about how a data warehouse should be designed, there is no consensus on a
design method yet. This paper follows from a wide discussion that took place in Dagstuhl,
during the Perspectives Workshop "Data Warehousing at the Crossroads", and is aimed at
outlining some open issues in modeling and design of data warehouses. More precisely,
issues regarding conceptual models, logical models, methods for des ...

Keywords: data warehouse design, multidimensional modeling

17 Multidimensional data modeling for location-based services
Christian S. Jensen, Augustas Kligys, Torben Bach Pedersen, Igor Timko
January 2004 **The VLDB Journal — The International Journal on Very Large Data
                Bases**, Volume 13 Issue 1
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(359.59 KB)   Additional Information: full citation, abstract, citings, index terms

> With the recent and continuing advances in areas such as wireless communications and
> positioning technologies, mobile, location-based services are becoming possible.Such
> services deliver location-dependent content to their users. More specifically, these
> services may capture the movements and requests of their users in multidimensional
> databases, i.e., data warehouses, and content delivery may be based on the results of
> complex queries on these data warehouses. Such queries aggregate detailed da ...
>
> **Keywords**: Data modeling, Location-based services, Multidimensional data, Partial
> containment

18 The advantages of electronic data interchange
François Bergeron, Louis Raymond
October 1992 **ACM SIGMIS Database**, Volume 23 Issue 4
Publisher: ACM Press
Full text available: pdf(1.31 MB)   Additional Information: full citation, abstract, citings, index terms

> The purpose of this research was to identify success factors of EDI implementation and
> the benefits organizations could obtain by using this technology. The success factors
> found empirically in a field study of 140 Canadian enterprises are the organizational
> support, the implementation process, the control procedures and the level of EDI
> integration in the firm. The level of success also depends upon the level of imposition of
> EDI by partners. The study found evidence that, in order of importanc ...

19 Industrial, applications, and experience sessions: Industry 2: Decision support: The
making of TPC-DS
Raghunath Othayoth, Meikel Poess
September 2006 **Proceedings of the 32nd international conference on Very large data
                bases VLDB '06**
Publisher: VLDB Endowment
Full text available: pdf(658.32 KB)   Additional Information: full citation, abstract, references, cited by, index
                                                                                              terms

> For the last decade, the research community and the industry have used TPC-D and its
> successor TPC-H to evaluate performance of decision support technology. Recognizing a
> paradigm shift in the industry the Transaction Processing Performance Council has
> developed a new Decision Support benchmark, TPC-DS, expected to be released this
> year. From an ease of benchmarking perspective it is similar to past benchmarks.
> However, it adjusts for new technology and new approaches the industry has embarked
> o ...

20 Complexities in IS sourcing: equifinality and relationship management
Barbara L. Marcolin, Alain Ross
October 2005 **ACM SIGMIS Database**, Volume 36 Issue 4
Publisher: ACM Press
Full text available: pdf(314.50 KB)   Additional Information: full citation, abstract, references, index terms

> Growth in IS outsourcing spurred research in the area that spans many perspectives but
> contains contradictory findings. Inconsistent findings raise confusion and doubt, leaving
> managers uncertain about IS sourcing directions and researchers unclear about

theoretical perspectives relevant to IS sourcing.We argue that the concept of equifinality accounts for much of this confusion. Equifinality suggests that, in the struggle to match conflicting functional demands with structural options, many equ ...

Keywords: IS sourcing, equifinality, framework, governance, partnership, relationship management

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Terms used: **data** and **context dimension**   Found **85,608** of **205,978**

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1 Data warehouse models: A relevance-extended multi-dimensional model for a data warehouse contextualized with documents   ▮

Juan Manuel Pérez, Rafael Berlanga, María José Aramburu, Torben Bach Pedersen

November 2005 **Proceedings of the 8th ACM international workshop on Data warehousing and OLAP DOLAP '05**

Publisher: ACM Press

Full text available: 📄 pdf(349.03 KB)   Additional Information: full citation, abstract, references, index terms

Current data warehouse and OLAP technologies can be applied to analyze the structured data that companies store in their databases. The circumstances that describe the context associated with these data can be found in other internal and external sources of documents. In this paper we propose to combine the traditional corporate data warehouse with a document warehouse, resulting in a contextualized warehouse. Thus, contextualized warehouses keep a historical record of the fact and their context ...

Keywords: OLAP, text-rich XML documents

2 Visualization: On interactive visualization of high-dimensional data using the hyperbolic plane   ▮

Jörg A. Walter, Helge Ritter

July 2002 **Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '02**

Publisher: ACM Press

Full text available: 📄 pdf(2.26 MB)   Additional Information: full citation, abstract, references, citings, index terms

We propose a novel projection based visualization method for high-dimensional datasets by combining concepts from MDS and the geometry of the hyperbolic spaces. Our approach *Hyperbolic Multi-Dimensional Scaling* (H-MDS) extends earlier work [7] using hyperbolic spaces for visualization of tree structures data ("hyperbolic tree browser").By borrowing concepts from multi-dimensional scaling we map proximity data directly into the 2-dimensional hyperbolic space (H2). This removes the restri ...

Keywords: H-MDS, focus+context, hyperbolic multi-dimensional scaling, infoViz, semantic browsing, text mining, visualizing high-dimensional data

3

Data quality in context
Diane M. Strong, Yang W. Lee, Richard Y. Wang
May 1997 **Communications of the ACM**, Volume 40 Issue 5
Publisher: ACM Press
Full text available: pdf(172.00 KB) Additional Information: full citation, references, citings, index terms

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4 Dissemination of data and context: Distributed caching of multi-dimensional data in mobile environments
Bin Liu, Wang-Chien Lee, Dik Lun Lee
May 2005 **Proceedings of the 6th international conference on Mobile data management MDM '05**
Publisher: ACM Press
Full text available: pdf(306.58 KB)   Additional Information: full citation, abstract, references, index terms

Caching has been an important technique for saving network traffic and reducing response time, especially in mobile environments where bandwidth is often a scarce resource. In this paper, we propose a novel approach for caching multidimensional data in a cluster of mobile devices. In particular, we focus on the most common types of multi-dimensional queries, namely range and k-nearest neighbor queries, by computing a cacheable region for every query, caching the result at the client, and indexin ...

Keywords: caching, mobile data management, multi-dimensional database

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5 Poster papers - short papers: A visual interface technique for exploring OLAP data with coordinated dimension hierarchies
Mark Sifer
November 2003 **Proceedings of the twelfth international conference on Information and knowledge management CIKM '03**
Publisher: ACM Press
Full text available: pdf(272.82 KB)   Additional Information: full citation, abstract, references, index terms

Multi-dimensional data occurs in many domains while a wide variety of text based and visual interfaces for querying such data exists. But many of these interfaces are not applicable to OLAP, as they do not support use of dimension hierarchies for selection and aggregation. We introduce an interface technique which supports visual querying of OLAP data, that has been implemented in the SGViewer tool. It is based on a data graph rather than a data cube representation of the data. Our interface pre ...

Keywords: OLAP, data exploration, hierarchies, interface

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6 Outlier detection for high dimensional data
Charu C. Aggarwal, Philip S. Yu
May 2001 **ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data SIGMOD '01**, Volume 30 Issue 2
Publisher: ACM Press
Full text available: pdf(197.25 KB)   Additional Information: full citation, abstract, references, citings, index terms

The outlier detection problem has important applications in the field of fraud detection, network robustness analysis, and intrusion detection. Most such applications are high dimensional domains in which the data can contain hundreds of dimensions. Many recent algorithms use concepts of proximity in order to find outliers based on their relationship to the rest of the data. However, in high dimensional space, the data is sparse and the

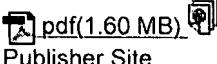notion of proximity fails to retain its meaningfulness. ...

7 Solving the occlusion problem for three-dimensional distortion-oriented displays · ■

Donovan Winch, Paul Calder, Raymond Smith
January 2001 **Australian Computer Science Communications , Proceedings of the 2nd Australasian conference on User interface AUIC '01**, Volume 23 Issue 5
Publisher: IEEE Computer Society, IEEE Computer Society Press

Full text available: ⬛ pdf(1.60 MB) 📄 Additional Information: full citation, abstract, references Publisher Site

Recent research into distortion-oriented displays (DODs) and non-linear magnification techniques has considered extending their application to large three-dimensional datasets. Inherent properties of three-dimensional datasets introduce some difficulties that do not occur in 2D environments. This paper considers the Occlusion Problem - that of context data hiding, or occluding, some or all of the data within an area of focus. A novel solution to this problem is proposed, namely the use of non-ge ...
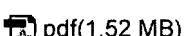
8 Simultaneous optimization and evaluation of multiple dimensional queries ■

Yihong Zhao, Prasad M. Deshpande, Jeffrey F. Naughton, Amit Shukla
June 1998 **ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD international conference on Management of data SIGMOD '98**, Volume 27 Issue 2
Publisher: ACM Press

Full text available: ⬛ pdf(1.52 MB)   Additional Information: full citation, abstract, references, citings, index terms

Database researchers have made significant progress on several research issues related to multidimensional data analysis, including the development of fast cubing algorithms, efficient schemes for creating and maintaining precomputed group-bys, and the design of efficient storage structures for multidimensional data. However, to date there has been little or no work on multidimensional query optimization. Recently, Microsoft has proposed "OLE DB for OLAP" as a standard multidime ...

9 Re-designing distance functions and distance-based applications for high dimensional data ■

Charu C. Aggarwal
March 2001 **ACM SIGMOD Record**, Volume 30 Issue 1
Publisher: ACM Press

Full text available: ⬛ pdf(644.27 KB)   Additional Information: full citation, abstract, citings, index terms

In recent years, the detrimental effects of the curse of high dimensionality have been studied in great detail on several problems such as clustering, nearest neighbor search, and indexing. In high dimensional space the data becomes sparse, and traditional indexing and algorithmic techniques fail from the performance perspective. Recent research results show that in high dimensional space, the concept of proximity may not even be qualitatively meaningful [6]. In this paper, we try to outline the ...
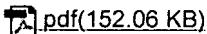
10 Research track: Efficiently handling feature redundancy in high-dimensional data · ■

Lei Yu, Huan Liu
August 2003 **Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '03**
Publisher: ACM Press

Full text available: ⬛ pdf(152.06 KB)   Additional Information: full citation, abstract, references, citings, index terms

High-dimensional data poses a severe challenge for data mining. Feature selection is a frequently used technique in pre-processing high-dimensional data for successful data mining. Traditionally, feature selection is focused on removing irrelevant features.

However, for high-dimensional data, removing redundant features is equally critical. In this paper, we provide a study of feature redundancy in high-dimensional data and propose a novel correlation-based approach to feature selection within t ...

Keywords: feature selection, high-dimensional data, redundancy

11 Connecting time-oriented data and information to a coherent interactive visualization

Ragnar Bade, Stefan Schlechtweg, Silvia Miksch

April 2004 **Proceedings of the SIGCHI conference on Human factors in computing systems CHI '04**

Publisher: ACM Press

Full text available: .pdf(1.35 MB)   Additional Information: full citation, abstract, references, index terms

In modern intensive care units (ICUs), the medical staff has to monitor a huge amount of high-dimensional and time-oriented data, which needs to be visualized user- and task-specifically to ease diagnosis and treatment planning. Available visual representations, like diagrams or charts neglect the implicit information as well as a-priory or associated knowledge about the data and its meaning (for example, 38.5°C (101.3°F) is moderate fever and 41°C (105.8°F) is critical fever ...

Keywords: health care, information visualization, medical application: intensive care units, temporal data modeling and abstraction, user interface design, visualization

12 Interactive feature specification for focus+context visualization of complex simulation data

Helmut Doleisch, Martin Gasser, Helwig Hauser

May 2003 **Proceedings of the symposium on Data visualisation 2003 VISSYM '03**

Publisher: Eurographics Association

Full text available: .pdf(1.98 MB)   Additional Information: full citation, abstract, citings

Visualization of high-dimensional, large data sets, resulting from computational simulation, is one of the most challenging fields in scientific viualization. When visualization aims at supporting the analysis of such data sets, feature-based approches are very useful to reduce the amount of data which is shown at each instance of time and guide the user to the most interesting areas of the data. When using feature-based visualization, one of the most difficult questions is how to extract or spe ...

13 CROSS-DB: a feature-extended multidimensional data model for statistical and scientific databases

Wolfgang Lehner, Thomas Ruf, Michael Teschke

November 1996 **Proceedings of the fifth international conference on Information and knowledge management CIKM '96**

Publisher: ACM Press

Full text available: .pdf(1.02 MB)   Additional Information: full citation, references, citings, index terms

14 Research contibutions: Utility-driven assessment of data quality

Adir Even, G. Shankaranarayanan

May 2007 **ACM SIGMIS Database**, Volume 38 Issue 2

Publisher: ACM Press

Full text available: .pdf(503.85 KB)   Additional Information: full citation, abstract, references, index terms

Data consumers assess quality within specific business contexts or decision tasks. The

same data resource may have an acceptable level of quality for some contexts but this quality may be unacceptable for other contexts. However, existing data quality metrics are mostly derived impartially, disconnected from the specific contextual characteristics. This study argues for the need to revise data quality metrics and measurement techniques to incorporate and better reflect contextual assessment. ...

Keywords: data management, data quality, database, decision making, information products, information value, metadata, utility

15 <u>Session 3: A scalable data structure for three-dimensional non-manifold objects</u>
Leila De Floriani, Annie Hui
June 2003 **Proceedings of the 2003 Eurographics/ACM SIGGRAPH symposium on Geometry processing SGP '03**
Publisher: Eurographics Association

Full text available: pdf(270.78 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

In this paper, we address the problem of representing and manipulating non-manifold, mixed-dimensional objects described by three-dimensional simplicial complexes embedded in the 3D Euclidean space. We describe the design and the implementation of a new data structure, that we call the non-manifold indexed data structure with adjacencies (NMIA), which can represent any three-dimensional Euclidean simplicial complex compactly, since it encodes only the vertices and the top simplexes of the comple ...

16 <u>Spatial and nearest-neighbor queries: Contorting high dimensional data for efficient main memory KNN processing</u>
Bin Cui, Beng Chin Ooi, Jianwen Su, Kian-Lee Tan
June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data SIGMOD '03**
Publisher: ACM Press

Full text available: pdf(229.89 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

In this paper, we present a novel index structure, called Δ-tree, to speed up processing of high-dimensional K-nearest neighbor (KNN) queries in main memory environment. The Δ-tree is a multi-level structure where each level represents the data space at different dimensionalities: the number of dimensions increases towards the leaf level which contains the data at their full dimensions. The remaining dimensions are obtained using *Principal Component Analysis*, which has the des ...

17 <u>From DQ to EQ: understanding data quality in the context of e-business systems</u>
Yong Jin Kim, Rajiv Kishore, G. Lawrence Sanders
October 2005 **Communications of the ACM**, Volume 48 Issue 10
Publisher: ACM Press

Full text available: pdf(772.27 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>
html(29.63 KB)

A fix for irrelevant information, cognitive overhead, and disorientation---common gremlins endured by every e-business system user.

18 <u>Applications: Fast retrieval of high-dimensional feature vectors in P2P networks using compact peer data summaries</u>
Wolfgang Müller, Andreas Henrich
November 2003 **Proceedings of the 5th ACM SIGMM international workshop on Multimedia information retrieval MIR '03**
Publisher: ACM Press

Full text available: pdf(378.07 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

The retrieval facilities of most Peer-to-Peer (P2P) systems are limited to queries based on a unique identifier or a small set of keywords. The techniques used for this purpose are hardly applicable for content-based image retrieval (CBIR) in a P2P network. Furthermore, we will argue that the curse of dimensionality and the high communication overhead prevent the adaptation of multidimensional search trees or fast sequential scan techniques for P2P CBIR. In the present paper we will propose two ...

19 <u>Dimensions of meaning</u>

H. Schütze

December 1992 **Proceedings of the 1992 ACM/IEEE conference on Supercomputing Supercomputing '92**

Publisher: IEEE Computer Society Press

Full text available: pdf(964.54 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

20 <u>Data mining and aggregation: Enhanced mining of association rules from data cubes</u>

Riadh Ben Messaoud, Sabine Loudcher Rabaséda, Omar Boussaid, Rokia Missaoui

November 2006 **Proceedings of the 9th ACM international workshop on Data warehousing and OLAP DOLAP '06**

Publisher: ACM Press

Full text available: pdf(469.79 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

On-line analytical processing (OLAP) provides tools to explore and navigate into data cubes in order to extract interesting information. Nevertheless, OLAP is not capable of explaining relationships that could exist in a data cube. Association rules are one kind of data mining techniques which finds associations among data. In this paper, we propose a framework for mining inter-dimensional association rules from data cubes according to a *sum-based aggregate measure* more general than simpl ...

Keywords: OLAP, association rules, data cubes

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1 Querying and Updating a Context-Aware Service Directory in Mobile Environments   ▄
Christos Doulkeridis, Michalis Vazirgiannis
September 2004 **Proceedings of the 2004 IEEE/WIC/ACM International Conference on Web Intelligence WI '04**
Publisher: IEEE Computer Society
Full text available: 🔳 pdf(136.04 KB)
                                           Additional Information: full citation, abstract, cited by
                    🔳 Publisher Site

Several interesting research directions materialize through the convergence of mobile
computing and service-oriented computing. As mobile devices keep getting smaller,
cheaper and more sophisticated, their use is becoming a commodity. We envision future
scenarios that involve mobile devices acting not only as requestors, but as providers of
data as well. In order to hide the heterogeneous nature of web data, service-oriented
architectures are adopted. Nevertheless, existing service discovery mec ...

2 Estimating High-Dimensional Directed Acyclic Graphs with the PC-Algorithm   ▄
Markus Kalisch, Peter Bühlmann
May 2007 **The Journal of Machine Learning Research**, Volume 8
Publisher: MIT Press
Full text available: 🔳 pdf(230.54 KB)   Additional Information: full citation, abstract

We consider the PC-algorithm (Spirtes et al., 2000) for estimating the skeleton and
equivalence class of a very high-dimensional directed acyclic graph (DAG) with
corresponding Gaussian distribution. The PC-algorithm is computationally feasible and
often very fast for sparse problems with many nodes (variables), and it has the attractive
property to automatically achieve high computational efficiency as a function of
sparseness of the true underlying DAG. We prove uniform consistency of the a ...

3 Query and view processing: Aggregate queries in peer-to-peer OLAP   ▄
💎 Mauricio Minuto Espil, Alejandro A. Vaisman
November 2004 **Proceedings of the 7th ACM international workshop on Data warehousing and OLAP DOLAP '04**
Publisher: ACM Press
Full text available: 🔳 pdf(375.80 KB)   Additional Information: full citation, abstract, references, index terms

A peer-to-peer (P2P) data management system consists essentially in a network of peer
systems, each maintaining full autonomy over its own data resources. Data exchange
between peers occurs when one of them, in the role of a local peer, needs data available

in other nodes, denoted the acquaintances of the local peer. No global schema is assumed to exist for any data under this computing paradigm. Henceforth, data provided by an acquaintance of a local peer must be adapted, in a manner that an ...

Keywords: OLAP, P2P computing, data warehousing

4 Database design with common sense business reasoning and learning ■

Veda C. Storey, Roger H. L. Chiang, Debabrata Dey, Robert C. Goldstein, Shankar Sudaresan
December 1997 **ACM Transactions on Database Systems (TODS)**, Volume 22 Issue 4
Publisher: ACM Press

Full text available: 🔳 .pdf(1.30 MB)   Additional Information: full citation, abstract, references, citings, index terms

Automated database design systems embody knowledge about the database design process. However, their lack of knowledge about the domains for which databases are being developed significantly limits their usefulness. A methodology for acquiring and using general world knowledge about business for database design has been developed and implemented in a system called the Common Sense Business Reasoner, which acquires facts about application domains and organizes them into a a hierarchical, con ...

Keywords: common sense business reasoner, common sense learning, common sense reasoning, database design, entity-relationship model

5 Technical papers: mobile and distributed computing: Network abstractions for ■

context-aware mobile computing
Gruia-Catalin Roman, Christine Julien, Qingfend Huang
May 2002 **Proceedings of the 24th International Conference on Software Engineering ICSE '02**
Publisher: ACM Press

Full text available: 🔳 .pdf(1.33 MB)   Additional Information: full citation, abstract, references, citings, index terms

Context-aware computing is characterized by the ability of a software system to continuously adapt its behavior to a changing environment over which it has little or no control. Previous work along these lines presumed a rather narrow definition of context, one that was centered on resources immediately available to the component in question, e.g., communication bandwidth, physical location, etc. This paper explores context-aware computing in the setting of ad hoc networks consisting of numerous ...

6 Efficient algorithms for processing XPath queries ■

Georg Gottlob, Christoph Koch, Reinhard Pichler
June 2005 **ACM Transactions on Database Systems (TODS)**, Volume 30 Issue 2
Publisher: ACM Press

Full text available: 🔳 .pdf(721.61 KB)   Additional Information: full citation, abstract, references, citings, index terms

Our experimental analysis of several popular XPath processors reveals a striking fact: Query evaluation in each of the systems requires time exponential in the size of queries in the worst case. We show that XPath can be processed much more efficiently, and propose main-memory algorithms for this problem with polynomial-time combined query evaluation complexity. Moreover, we show how the main ideas of our algorithm can be profitably integrated into existing XPath processors. Finally, we present ...

Keywords: Efficient Algorithms, XML, XPath

7 Multimedia and visualization track: Exploring OLAP aggregates with hierarchical visualization techniques
Svetlana Mansmann, Marc H. Scholl
March 2007 **Proceedings of the 2007 ACM symposium on Applied computing SAC '07**
Publisher: ACM Press
Full text available: .pdf(594.67 KB)   Additional Information: full citation, abstract, references, index terms

This paper presents an approach to exploring multidimensional data cubes with hierarchical visualization techniques. Analysts interact with data in a predominantly "drill-down" fashion, i.e. from coarse grained aggregates towards the desired level of detail. We suggest that visual hierarchies are adequate for mapping the multiscale nature of decomposition as they preserve the results of the entire interaction.

We introduce a class of visual structures called *Enhanced Decomposition T ...*

Keywords: OLAP, hierarchical visualization, multidimensional data

8 The Quadtree and Related Hierarchical Data Structures
Hanan Samet
June 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 2
Publisher: ACM Press
Full text available: .pdf(4.87 MB)   Additional Information: full citation, references, citings, index terms

9 A model for n-dimensional boundary topology
Henning Østergård Hansen, Niels Jørgen Christensen
June 1993 **Proceedings on the second ACM symposium on Solid modeling and applications SMA '93**
Publisher: ACM Press
Full text available: .pdf(945.45 KB)   Additional Information: full citation, references, citings, index terms

10 Avatars: a shifting interaction
Kristine Deray
May 2001 **Proceedings of the Pan-Sydney area workshop on Visual information processing - Volume 11 VIP '01**
Publisher: Australian Computer Society, Inc.
Full text available: .pdf(117.24 KB)   Additional Information: full citation, abstract, references, index terms

The intersection of theatre-performance, design, and informatics is a fertile area for a broader understanding of the possible design and interaction between people and avatars in simulated three dimensional information spaces. This paper outlines the theoretical modelling for the visualization of a generic avatar template applicable to information spaces. Such a representation, it is theorised, would indicate semantic and structural meanings between contents of a document collection of an infor ...

Keywords: avatars, experiential design, hypermedia-databases, interactive spaces, navigation, three-dimensional spaces, visualization

11 Accelerating XPath evaluation in any RDBMS
Torsten Grust, Maurice Van Keulen, Jens Teubner

March 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 1
Publisher: ACM Press

Full text available: pdf(781.01 KB)   Additional Information: full citation, appendices and supplements, abstract, references, cited by, index terms

This article is a proposal for a database index structure, the *XPath accelerator*, that has been specifically designed to support the evaluation of XPath path expressions. As such, the index is capable to support *all* XPath axes (including ancestor, following, preceding-sibling, descendant-or-self, etc.). This feature lets the index stand out among related work on XML indexing structures which had a focus on the child and descendant axes only. The index has been designed with a close ...

Keywords: Main-memory databases, XML, XML indexing, XPath

12 Poster papers - short papers: A visual interface technique for exploring OLAP data with coordinated dimension hierarchies
Mark Sifer
November 2003 **Proceedings of the twelfth international conference on Information and knowledge management CIKM '03**
Publisher: ACM Press
Full text available: pdf(272.82 KB)   Additional Information: full citation, abstract, references, index terms

Multi-dimensional data occurs in many domains while a wide variety of text based and visual interfaces for querying such data exists. But many of these interfaces are not applicable to OLAP, as they do not support use of dimension hierarchies for selection and aggregation. We introduce an interface technique which supports visual querying of OLAP data, that has been implemented in the SGViewer tool. It is based on a data graph rather than a data cube representation of the data. Our interface pre ...

Keywords: OLAP, data exploration, hierarchies, interface

13 Tests on parallel machines of a domain decomposition method for a composite three-dimensional structural analysis problem
F.-X. Roux
June 1988 **Proceedings of the 2nd international conference on Supercomputing ICS '88**
Publisher: ACM Press

Full text available: pdf(1.08 MB)   Additional Information: full citation, abstract, references, citings, index terms

We report about parallel implementation on LCAP1 system and on CRAY2 supercomputer of a parallel algorithm based on a domain decomposition method with LaGrange multiplier, for solving an ill conditioned three dimensional composite structural analysis problem, with as many as one million degrees of freedom. We show that this method has very good features on both granularity and data dependency viewpoints. The tests performed prove that the choice of the local solver is very import ...

14 Cheops: a compact explorer for complex hierarchies
Luc Beaudoin, Marc-Antoine Parent, Louis C. Vroomen
October 1996 **Proceedings of the 7th conference on Visualization '96 VIS '96**
Publisher: IEEE Computer Society Press
Full text available: pdf(1.14 MB)   Additional Information: full citation, references, citings, index terms

Keywords: focus+context techniques, graphical browser, hierarchical representation, information visualization and exploration

15 Three dimensional tree grammars for the modeling of plants

Jeffrey J. McConnell

February 1988 **Proceedings of the 1988 ACM sixteenth annual conference on Computer science CSC '88**

Publisher: ACM Press

Full text available: pdf(488.88 KB)   Additional Information: full citation, abstract, references, index terms

A system to generate pictures of plants requires a model for plant growth, that includes size and shape influences, and a renderer to produce images from the model output. The model of this two step process is examined, from a basis in botanical research. An enhancement of graph grammars to three dimensions is presented for the model of plant growth. A discussion of the use of these grammars to model plant growth examines the three botanical elements of phyllotaxis, branch orientation, and ...

16 INsite: introduction to a generic paradigm for interpreting user-Web space interaction

Adil Faisal, Cyrus Shahabi, Margaret McLaughlin, Frederick Betz

November 1999 **Proceedings of the 2nd international workshop on Web information and data management WIDM '99**

Publisher: ACM Press

Full text available: pdf(818.59 KB)   Additional Information: full citation, abstract, references, citings, index terms

INsite is a heuristic-based implementation to provide consistent tracking, analysis and visualization of users' interactions with a generic web site. Our research has immediate applicability in such disparate fields as Business, E-commerce, Distance Education, Entertainment and Management for capturing individual and collective profiles of customers, learners and employees. INsite can identify trends and changes in user(s) behavior (interests) by monitoring their online interactions. It has ...

Keywords: WWW, Web mining, Web navigation analysis, Web space, traffic analysis, user profile, visualization

17 An application of a context-aware file system

Christopher K. Hess, Roy H. Campbell

December 2003 **Personal and Ubiquitous Computing**, Volume 7 Issue 6

Publisher: Springer-Verlag

Full text available: pdf(383.26 KB)   Additional Information: full citation, abstract, citings, index terms

Ubiquitous computing environments stretch the requirements of traditional infrastructures used to facilitate the development of applications. Activities are often supported by collections of applications, some of which are automatically launched with little or no human intervention. This task-driven environment challenges existing application construction and data management techniques. In this paper, we describe a file system that organises application data based on contextual information, impo ...

Keywords: Context, Data management, File systems, Operating systems, Ubiquitous computing spaces

18 The efficiency of greedy routing in hypercubes and butterflies

George D. Stamoulis, John N. Tsitsiklis

June 1991 **Proceedings of the third annual ACM symposium on Parallel algorithms**

and architectures SPAA '91
Publisher: ACM Press
Full text available: ![icon] pdf(1.19 MB)   Additional Information: full citation, references, citings, index terms

19 DTN routing in a mobility pattern space   ■
Jérémie Leguay, Timur Friedman, Vania Conan
August 2005 **Proceeding of the 2005 ACM SIGCOMM workshop on Delay-tolerant networking WDTN '05**
Publisher: ACM Press

Full text available: ![icon] pdf(385.96 KB)   Additional Information: full citation, abstract, references, citings, index terms

Routing in delay tolerant networks (DTNs) benefits considerably if one can take advantage of knowledge concerning node mobility. The main contribution of this paper is the definition of a generic routing scheme for DTNs using a high-dimensional Euclidean space constructed upon nodes' mobility patterns. We call this the *MobySpace*. One way of representing nodes in this space is to give them coordinates that correspond to their probability of being found in each possible location. We present ...

Keywords: delay tolerant networks, mobility, routing

20 The impact of communication locality on large-scale multiprocessor performance   ■
Kirk L. Johnson
April 1992 **ACM SIGARCH Computer Architecture News , Proceedings of the 19th annual international symposium on Computer architecture ISCA '92**, Volume 20 Issue 2
Publisher: ACM Press

Full text available: ![icon] pdf(1.30 MB)   Additional Information: full citation, abstract, references, citings, index terms

As multiprocessor sizes scale and computer architects turn to interconnection networks with non-uniform communication latencies, the lure of exploiting communication locality to increase performance become inevitable. Models that accurately quantify locality effects provide invaluable insight into the importance of exploiting locality as machine sizes and features change. This paper presents a framework for modeling the impact of communication locality on system performance. The framework p ...

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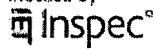□ **Search Results**

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